

AMENDMENTS TO THE CLAIMS

Please replace all previously listings of claims with the following listing of claims.

Listing of Claims

1-9. (Cancelled).

10. (Currently Amended) A tool for use in providing a predetermined clearance between an impeller and a shroud each mounted about a central axis of a jet engine assembly, wherein the shroud has a mating surface, and the impeller and at least a portion of the shroud are disposed within a casing having a mating surface, wherein the shroud mating surface and casing mating surface are configured to mate with an inlet housing having corresponding inner and outer mating surfaces, respectively, the inlet housing having a distance between the planes in which the inner and outer mating surfaces lie, the tool comprising:

a hub having first and second sides, [[and]] an opening extending therethrough, and a plurality of bores, the first side having first and second mating surfaces configured to mate with the shroud mating surface and the casing mating surface, respectively, the hub having distance between the planes in which the first and second mating surfaces lie, wherein the hub distance is less than the inlet housing distance, and the plurality of bores extending between the hub first and second sides, each bore configured to receive a fastener to couple the hub to the jet engine assembly.

11. (Original) The tool of claim 10, further comprising:

a measuring tool coupled to at least a portion of the hub, the tool configured to provide at least one measurement from a point in a plane proximate the hub to a point on the jet engine assembly.

12. (Original) The tool of claim 11, wherein the measuring tool further comprises:

an arm having first and second ends, wherein the first end is coupled to the hub;
and
a measuring gauge coupled to the arm.

13. (Cancelled).

14. (Original) The tool of claim 10, wherein the hub is ring-shaped.

15. (Original) The tool of claim 10, wherein the jet engine assembly further comprises a seal housing, wherein the shroud is axially coupled to the seal housing, the tool further comprising:

an arm coupled to at least a portion of the hub and configured to contact the seal housing to selectively raise and lower the seal housing away from and toward the shroud, respectively.

16. (Original) The tool of claim 15, further comprising:

a plate configured to couple to the seal housing and increase the area with which the arm can contact.

17. (Original) The tool of claim 16, wherein the arm further comprises first and second ends, wherein the first end is coupled to the hub and the second end includes two arms configured to contact the plate so that when force is applied to or removed from the first end, the second end raises or lowers the seal housing, respectively.

18. (Original) The tool of claim 10, wherein the hub comprises aluminum.

19. (Original) The tool of claim 10, wherein the hub opening is configured to receive a mic bridge.

20. (New) A tool for use in providing a predetermined clearance between an impeller and a shroud each mounted about a central axis of a jet engine assembly, wherein the shroud has

a mating surface, and the impeller and at least a portion of the shroud are disposed within a casing having a mating surface, wherein the shroud mating surface and casing mating surface are configured to mate with an inlet housing having corresponding inner and outer mating surfaces, respectively, the inlet housing having a distance between the planes in which the inner and outer mating surfaces lie, the tool comprising:

a hub having first and second sides and an opening extending therethrough, the first side having first and second mating surfaces configured to mate with the shroud mating surface and the casing mating surface, respectively, the hub having distance between the planes in which the first and second mating surfaces lie, wherein the hub distance is less than the inlet housing distance; and

a measuring tool coupled to at least a portion of the hub, the tool configured to provide at least one measurement from a point in a plane proximate the hub to a point on the jet engine assembly.

21. (New) The tool of claim 20, wherein the measuring tool further comprises:
an arm having first and second ends, wherein the first end is coupled to the hub;
and
a measuring gauge coupled to the arm.

22. (New) A tool for use in providing a predetermined clearance between an impeller and a shroud each mounted about a central axis of a jet engine assembly, wherein the shroud has a mating surface, and the impeller and at least a portion of the shroud are disposed within a casing having a mating surface, wherein the shroud mating surface and casing mating surface are configured to mate with an inlet housing having corresponding inner and outer mating surfaces, respectively, the inlet housing having a distance between the planes in which the inner and outer mating surfaces lie, the tool comprising:

a hub having first and second sides and an opening extending therethrough, the first side having first and second mating surfaces configured to mate with the shroud mating surface and the casing mating surface, respectively, the hub having distance between the planes in which the first and second mating surfaces lie, wherein the hub distance is less than the inlet housing distance;

an arm coupled to at least a portion of the hub and configured to contact the seal housing to selectively raise and lower the seal housing away from and toward the shroud, respectively; and

a plate configured to couple to the seal housing and increase the area with which the arm can contact.

23. (New) The tool of claim 22, wherein the arm further comprises first and second ends, wherein the first end is coupled to the hub and the second end includes two arms configured to contact the plate so that when force is applied to or removed from the first end, the second end raises or lowers the seal housing, respectively.